

NWS CHANGE FORM PART A - COVER SHEET			1A. DATE SUBMITTED October 3, 2003	
			1B. DATE RECEIVED	
This form is in three parts. Submitters must complete unshaded blocks in Part A and as much of Part B and C as possible. If there is no specific required change date, enter 60 days from date submitted. Address questions to NWS Change Management at (301) 713-1373. Submit change requests to the NWSRC mailbox (External: NWSRC@noaa.gov).				
2. ORIGINATOR OFFICE Office of Science and Technology, Systems Engineering Center (OST32)	3. SUBMITTING AUTHORITY Name: Henry Robinson Routing Code: OS12	4. COGNIZANT TECHNICAL INDIVIDUAL Name: Dave Niver Routing Code: W/OST32 Phone: 301-713-9001 x168 Name: James Heil Routing Code: OS11 Phone: 301-713-0463 x172	5. ORIGINATOR TRACKING NUMBER	
6. SYSTEMS AFFECTED BY CHANGE <input type="checkbox"/> DATA PRODUCTS <input type="checkbox"/> OTHER (specify) <input type="checkbox"/> ASOS <input checked="" type="checkbox"/> AWIPS <input type="checkbox"/> NEXRAD <input type="checkbox"/> RRS <input type="checkbox"/> CRS			7. WSH TRACKING NUMBER	7A. REV LEVEL
8. TITLE OF CHANGE Add New Eta 12 Grids to SBN/NOAAPORT (Revised 1/14/2004)			9. OPERATIONAL REQUIREMENTS DOCUMENT IDENTIFIER	
10. CATEGORY OF CHANGE <input checked="" type="checkbox"/> RC <input type="checkbox"/> PECP <input type="checkbox"/> ECP		11. CLASS OF CHANGE <input type="checkbox"/> CLASS I <input type="checkbox"/> CLASS II		
12. TYPE OF CHANGE <input type="checkbox"/> DOCUMENTATION ONLY <input type="checkbox"/> HARDWARE <input checked="" type="checkbox"/> SOFTWARE <input checked="" type="checkbox"/> DATA				
13. SITES AFFECTED All sites				
14. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY OF EXISTING SYSTEM <p>In May 2003, the IFPS Science Steering Team (ISST) recommended that additional Eta 12 model forecast times be provided to AWIPS. This will extend the existing Eta 12 from 60 to 84 hours, while keeping the same parameter set. These new forecast times will meet the requirement for an improved grid set for IFPS's "Smart Initialization." Therefore, OS&T and OS jointly submit this RC on behalf of the ISST.</p> <p>The AWIPS Build to which these new grids will be allocated is OB2.2; the full set of Eta 12 grids will be allocated within AWIPS OB4.</p> <p>Revised 1/04 for a more accurate data volume estimate and expanded parameter names.</p>				
15. KNOWN OR PROPOSED SOLUTION				

The additional Eta 12 forecast times should be added to the SBN and made available to AWIPS sites, with their extended grids following the same dissemination pathway as the existing Eta 12 grids:

NCEP → NWS TG → AWIPS NCF → SBN(TG chan) → AWIPS & NOAAPORT Users.

Specifications for new Eta 12 grids:

1. Grid 218 (12KM Eta 12 CONUS)

2. Surface Parameter set:

2 m Temperature

2 m Relative Humidity

10 m u-wind

10 m v-wind

MSLP

MSLP (Eta model reduction)

Station Pressure

Total Precipitation*

CAPE

CIN

Precipitable Water

Convective Precipitation*

Listed Index

Helicity

* these parameters have one less time increment since cumulative from time zero.

3. Forecast Intervals

AWIPS currently gets Eta 12 grids out to 60 hours at 00 and 12 UTC, and out to 48 hours at 06 and 18 UTC (all four cycles output at three hour intervals). Sustaining this granularity out to 84 hours gives 29 total "valid times," with the last eight being new:

00, 03, 06, 09, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42,
45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, and 84 Hrs.

Units are hours from model initialization time.

4. The four Eta 12 model run times are 00, 06, 12 & 18 UTC.

5. Data Volume: The increase to 29 valid times (* parameters ABOVE increase to 28 valid times) increases the daily data volume by 176 MB (52.6%), from 334 to 510 MB.

The NWS TG shall provide these products in very-near-real time to the AWIPS NCF for uplink on the SBN's TG channel.

16. ALTERNATE SOLUTIONS

None.

17. REQUIRED
CHANGE DATE
October 30, 2003

18. RATIONALE FOR REQUIRED CHANGE DATE
This product has recently been allocated to AWIPS OBl.2, which is scheduled to commence deployment in November 2003.

19. PRIORITY

☐ ROUTINE ☒ URGENT ☐ EMERGENCY

DRG/CCB/PMC/CMB DECISION

20. DECISION AUTHORITY LEVEL

☐

FAST TRACK

☐

CCB LEVEL ONLY

☐

PMC or NWS CMB DECISION REQUIRED

21. CCB LEVEL DECISION

☐

APPROVED

☐

DISAPPROVED

SIGNATURE

☐

RECOMMEND APPROVAL

DATE SIGNED

FOR USE ONLY WHEN PMC or NWS CMB DECISION REQUIRED

22. PMC OR NWS CMB DECISION

☐

APPROVED

☐

DISAPPROVED

SIGNATURE/DATE

NWS CHANGE FORM PART A - DATA PRODUCTS SUPPLEMENT										1. ORIGINATOR TRACKING NUMBER	
This information is required for Data Products submissions.										2. WSH TRACKING NUMBER	2A. REV LEVEL
3. NODE ID	4. AWIPS ID	5. WMO HEADER	6. ADD REV DEL	7. SEAS Y/N	8. CHAR PER MSG	9. FREQUENCY	10. NWSTG DISTR	NWWS ONLY			
	NNNXXX							11. PRIME UPLINK	12. B/U UPLINK		
Notes: The WMO header assignment notes, below, refer to the generic header template: T ₁ T ₂ A _i A ₂ ii.											
1. The T ₁ values correspond, respectively, to the following: Y. Default value Z. Value for forecast periods of 51, 54, 57, 63, 66, 69, 75, 78, and 81Hrs											
2. The T ₂ values correspond, respectively, to the following 11 parameters: T 2 m Temperature R 2 m Relative Humidity U 10 m u-wind V 10 m v-wind P MSLP Z MSLP (Eta) P Station Pressure E Total Precipitation W CAPE Y CIN F Precipitable Water G Convective Precipitation Q Lifted Index Z Helicity											
3. The A _i values are assigned to the following GFS model grid: B = Grid 218 (12 KM Eta 12 CONUS)											
4. The A ₂ values are assigned to the following forecast periods (listed for times after 48 hours): . For T ₁ =Y: J=60, K=72, L=84 For T ₁ =Z: Q=51, M=54, S=57, N=66, T=78, and Z=63, 69, 75, and 81 Hrs.											
5. The ii values are assigned as follows: 98 default 89 for MSLP and MSLP (Eta) 86 for Helicity											
FOR METAR CHANGES ONLY				17. INTERNAL NWS USE ONLY		18. PRODUCT SOURCE		19. AWIPS DATA TYPE			
13. COMMS ID	14. N. LATITUDE	15. W. LONGITUDE	16. ELEV (M)								

	DEG	MIN	SEC	DEG	MIN	S E		20. NOTIFICATION	A. CHANGE NOTICE NUMBER	B. EFFECTIVE DATE	C. ISSUE DATE
								AWIPS			
								EMWIN			
								NWWS			

